

## SYSTEM AND METHOD FOR SCRUBBING ERRORS IN VERY LARGE MEMORIES

### ABSTRACT OF THE DISCLOSURE

Systems and methods for improving scrubbing techniques are provided. In one  
5 aspect, the error correction code for a memory line is strengthened by reorganizing  
the memory line into distinct portions and providing an error code set that includes a  
distinct error code for each portion of the memory line. In another aspect of the  
invention, the scan rate is effectively increased by moving memory scrubbing  
functionality into the memory system and distributing it among a number of  
10 subcomponents that can operate scrubbing functions in parallel. The effective scan  
rate increase reduces the probability of failure for any given ECC strength.